

Jones, Maude

159192

From: Gibbs, Terra  
Sent: Wednesday, July 13, 2005 1:47 PM  
To: Jones, Maude  
Subject: FW: Please compare these two sequences... PLEASE RUSH

RE: USSN 09/918,026

-----Original Message-----

From: Fredman, Jeffrey  
Sent: Wednesday, July 13, 2005 6:10 AM  
To: STIC-Biotech/ChemLib  
Cc: Gibbs, Terra  
Subject: FW: Please compare these two sequences... PLEASE RUSH

PLEASE RUSH.

I Approve.

Jeff Fredman

-----Original Message-----

From: Gibbs, Terra  
Sent: Tuesday, July 12, 2005 5:29 PM  
To: Fredman, Jeffrey  
Subject: Please compare these two sequences... PLEASE RUSH

Jeff, I need this sequence search comparison RUSHED! I need this to support a 103 rejection and didn't realize it til now...  
This case is due this biweek.

The two sequences are only 1561 and 1981 nucleotides in length.

Please compare GenBank Accession Number AF099031 with AF059203.

Terra Cotta Gibbs, Ph.D.  
Art Unit 1635  
Remsen Building 2D10  
Mailbox 2C18  
571-272-0758

GenCore version 5.1.6  
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## OM nucleic - nucleic search, using sw model:

Run on: July 14, 2005, 16:47:20 ; Search time 2 Seconds

(without alignments)

3.201 Million cell updates/sec

Title: AP099031  
Perfect Score: 1569  
Sequence: 1 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 0.5  
Searched: 1 seqs, 2040 residues

Total number of hits satisfying chosen parameters: 2

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000  
Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing First 1 summaries

Database : af09203\_gb\_pr:  
Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query	Match	Length	DB ID	Description
1	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203

## ALIGNMENTS

RESULT	LOCUS	DEFINITION	VERSION	KEYWORDS	SOURCE	ORGANISM	JOURNAL	MEDLINE	REFERENCE	AUTHORS	TITLE	JOURNAL	FEATURES
AF059203	Homo sapiens acyl coenzyme A:cholesterol acyltransferase 2 mRNA	1	1 to 2040		Homo sapiens (human)	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.	J. Biol. Chem. 273 (41), 26765-26771 (1998)	9756920	2 (bases 1 to 2040)	Oelkers, P., Cromley, D., Behari, A., Billheimer, J.T. and Sturley, S.L.	Characterization of two human genes encoding acyl coenzyme A:cholesterol acyltransferase-related enzymes	W. 168th Street, New York, NY 10032, USA	Source 1 . 2040 /organism="Homo sapiens"

ACCESSION: AF059203 GI:3746534

VERSION: AF059203.1

KEYWORDS: Homo sapiens (human)

SOURCE: Homo sapiens

ORGANISM: Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

DEFINITION: 1 (bases 1 to 2040) Human Nutrition, Columbia University, 630

TITLE: Characterization of two human genes encoding acyl coenzyme A:cholesterol acyltransferase-related enzymes

JOURNAL: J. Biol. Chem. 273 (41), 26765-26771 (1998)

MEDLINE: 9834592

PUBMED: 9756920

REFERENCE: 2 (bases 1 to 2040)

AUTHORS: Oelkers, P., Cromley, D., Behari, A., Billheimer, J.T. and Sturley, S.L.

TITLE: Characterization of two human genes encoding acyl coenzyme A:cholesterol acyltransferase-related enzymes

JOURNAL: J. Biol. Chem. 273 (41), 26765-26771 (1998)

FEATURES: Location/Qualifiers

Source 1 . 2040

/organism="Homo sapiens"

Result No.	Score	Query	Match	Length	DB ID	Description	Query	Best Local Similarity	Score	DB 1;	Length
1	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 1 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.7%	1564.2	Pred. No. 0;	2040;
2	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 2 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2	Matches 0;	2040;
3	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 3 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2	Indels 0;	2040;
4	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 4 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2	Caps 0;	2040;
5	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 5 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
6	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 6 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
7	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 7 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
8	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 8 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
9	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 9 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
10	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 10 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
11	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 11 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
12	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 12 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
13	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 13 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
14	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 14 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
15	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 15 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
16	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 16 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
17	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 17 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
18	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 18 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
19	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 19 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
20	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 20 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
21	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 21 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
22	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 22 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
23	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 23 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
24	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 24 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
25	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 25 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
26	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 26 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
27	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 27 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
28	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 28 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
29	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 29 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
30	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 30 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
31	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 31 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
32	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 32 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
33	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 33 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
34	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 34 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
35	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 35 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
36	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 36 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
37	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 37 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
38	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 38 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
39	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 39 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
40	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 40 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
41	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 41 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
42	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 42 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
43	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 43 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
44	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 44 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
45	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 45 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
46	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 46 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
47	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 47 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
48	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 48 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
49	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 49 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
50	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 50 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
51	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 51 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
52	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 52 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
53	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 53 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
54	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 54 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
55	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 55 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
56	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 56 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
57	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 57 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
58	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 58 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
59	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 59 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
60	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 60 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
61	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 61 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
62	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 62 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
63	1564.2	99.7	2040	1	AF059203	ACCESSION: AF059203	Qy 63 ATGGAGCCAGGGGGCGG.....CTGGTCTGCCATACCTAG 1569	99.8%	1564.2		2040;
64</td											

Qy 721 ATGAAAAGCTACTCCCTTCCTGAGAGGGCTTGCCTGGATCCCTTGTGCCAGAGGGT 780  
 Db 772 ATGAAAAGCTACTCCCTTCCTGAGAGGGCTTGCCTGGATCCCTTGTGCCAGAGGGT 831  
 Qy 781 GAGGGATCAGGGCCCAAGTTCTCAGTACCTCTAATGTAATTATGGCCAAAGAC 840  
 Db 832 GAGGGATCAGGGCCCAAGTTCTCAGTACCTCTAATGTAATTATGGCCAAAGAC 891  
 Qy 841 ATCTACAGGAAGACTTACCCCTAGGAGCCCTATGTCAGTGGAAATTATGGCCAAAGAC 900  
 Db 892 ATCTACAGGAAGCTTACCCCTAGGAGCCCTATGTCAGTGGAAATTATGGCCAAAGAC 951  
 Qy 901 TTGCCCCAGGCCCTGGATCTGCTGCTCATATCCCTGTTCATCCCGGCCCTCTGCTGTT 960  
 Db 952 TTGCCCCAGGCCCTGGATCTGCTGCTCATATCCCTGTTCATCCCGGCCCTCTGCTGTT 1011  
 Qy 961 CCTGCTTGTCAAACATGAGCCGAGGCCCTTCAAGACCCCTGCCCTGCTCTATAC 1020  
 Db 1012 CCTGCTTGTCAAACATGAGCCGAGGCCCTTCAAGACCCCTGCCCTGCTCTATAC 1071  
 Qy 1021 CTGCAATSCAACGGTGCAGGATCTTCATGTCGTCATCTGCTCATCTTCCCTCAT 1080  
 Db 1072 CTGCAATSCAACGGTGCAGGATCTTCATGTCGTCATCTGCTCATCTTCCCTCAT 1131  
 Qy 1081 TGCTGCTCAAAGCCCTTGGCGAGATGCTACGATTTGGAGACAGGATGCTCATCTTCCCTCAT 1140  
 Db 1132 TGCCTGCTCAAAGCCCTTGGCGAGATGCTACGATTTGGAGACAGGATGCTCATCTTCCCTCAT 1191  
 Qy 1141 TGGTGGAACTCAACGTCCTCTCCAACTACTACCCACTTGGAAACTGGTGTCCATGAC 1200  
 Db 1192 TGGTGGAACTCAACGTCCTCTCCAACTACTACCCACTTGGAAACTGGTGTCCATGAC 1251  
 Qy 1201 TGGCTCTAAAGCTAACGTTACGATGGGGTGGCTGCGCTCTGGTCCCAGGGCGAGG 1260  
 Db 1252 TGGCTCTAACGTTACGATGGGGTGGCTGCGCTCTGGTCCCAGGGCGAGG 1311  
 Qy 1261 GTAGCCATGCTGGGTTGTTCTGCTGCTCTCCCAAGTGGCCCTGACTATCTCTGCTTC 1320  
 Db 1312 GTAGCCATGCTGGGTTGTTCTGCTGCTCTCCCAAGTGGCCCTGACTATCTCTGCTTC 1371  
 Qy 1321 GTCCCTGGGTTCTPATCCGGTCAATGGTAACTCTTGGTCAATTGGGAAATGTTG 1380  
 Db 1372 GTCCCTGGGTTCTPATCCGGTCAATGGTAACTCTTGGTCAATTGGGAAATGTTG 1431  
 Qy 1381 AACCTCATGATGCAACAGCAGGCACTGGCCGGATGGACGCTGCTGACCCATG 1440  
 Db 1432 AACCTCATGATGCAACAGCAGGCACTGGCCGGATGGACGCTGCTGACCCATG 1491  
 Qy 1441 CTGTTTCTAGGCCAGGAACTCAGGTCAGCTGCTGACTGCCAGGAACTGTTACGCAAGGGG 1500  
 Db 1492 CTGTTTCTAGGCCAGGAACTCAGGTCAGCTGCTGACTGCCAGGAACTGTTACGCAAGGGG 1551  
 Qy 1501 CACTGCCCTTACCCAGGCAACTTCTGGGGCTGGTGAACCTCTGGGAACTTGGGCTTC 1560  
 Db 1552 CACTGCCCTTACCCAGGCAACTTCTGGGGCTGGTGAACCTCTGGGAACTTGGGCTTC 1611  
 Qy 1561 CATACTTAG 1569  
 Db 1612 CATACTTAG 1620

Search completed: July 14, 2005, 16:47:22  
 Job time : 2 secs